

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Sanders

SERIAL NO.:

10/664,408

GROUP NO.:

Not yet assigned

FILING DATE:

September 17, 2003

EXAMINER:

Not yet assigned

TITLE:

Electrochemical Generation, Storage and Reaction of Hydrogen and

Oxygen

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

\boxtimes	(1)	within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or
	(2)	after the period defined in (1) but before the mailing date of a final action or a notice of allowance under 37 C.F.R. 1.311, and
		the requisite Statement is below, OR
		the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or

Information Disclosure Statement Serial No. 10/664,408 Page 2 of 2

<u>.</u>	(3)	after the mailing date of a final action or notice of allowance but before the payment of the issue fee, AND
		the requisite Statement is below, AND
		the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page <u>and</u> the Statement is required]:

- 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R.

 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Date: December 9, 2003 Reg. No. 45,238

Tel. No.: (617) 310-8176 Fax No.: (617) 248-7100

2722758

Respectfully submitted,

Gerald E. Worth

Atty/Agent for Applicant(s)
Testa, Hurwitz, & Thibeault, LLP

High Street Tower 125 High Street

Boston, Massachusetts 02110



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Sanders

SERIAL NO.:

10/664,408

GROUP NO.:

Not yet assigned

FILING DATE:

September 17, 2003

EXAMINER:

Not yet assigned

TITLE:

Electrochemical Generation, Storage and Reaction of Hydrogen and

Oxygen

CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 9th day of December, 2003.

Heather Morgan

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith is/are:

- 1) Transmittal Form (1 pg.);
- 2) Information Disclosure Statement (2 pgs.);
- 3) Form PTO-1449 (3 pgs.);
- 4) Copies of references (C1-C11); and
- 5) Return receipt postcard.

All Submitted under this Certificate of First Class Mailing Under 37 C.F.R.§ 1.8.

			Application Serial Number			10/664,408			
1			Filing Date		\neg	Septem	nber 17, 2003		
1/6	TERANSMITTA	\ L	First Named	d Inventor	\neg	Sanders	S		
	FORM		Group Art l	Unit	寸	Not Ye	et Assigned		
DEC 1	1 1 2003 \$		Examiner N	lame	\exists	Not Ye	et Assigned		
			Attorney Do	ocket No.	\neg	NAS-0	01 (9347/2)		
TO THE	DEMARK	ENC	CLOSURES (check all that apply)					
	ee Transmittal Form		Copy of Notic	ce to File Missing	T		Notice of Appeal to Board		
	Check Attached		Parts of Appli	ication (PTO-1553)			of Patent Appeals and Interferences		
	Copy of Fee Transmittal Form		Formal Drawin	ng(s)]	Appeal Brief (in triplicate)		
	Amendment/Response		Request For C Examination (]	Status Inquiry		
	☐ Preliminary ☐ After Final		Transmittal		Ø	₃	Return Receipt Postcard		
	☐ Affidavits/declaration(s) ☐ Letter to Official ☐ Draftsperson including Drawings		Power of Attor (Revocation of	rney f Prior Powers)	×		Certificate of First Class Mailing under 37 C.F.R. 1.8		
	[Total Sheets]		Terminal Disc	laimer			Certificate of Facsimile Transmission under 37 C.F.R. 1.8		
	Petition for Extension of Time	-		laration and Power or Utility or Design ation			Additional Enclosure(s) (please identify below)		
\boxtimes	Information Disclosure Statement		Small Entity S	tatement			Transmittal of Formal Drawings Petition Under 37 C.F.R. § 1.182		
Form PTO-1449 Copies of IDS Citations			CD(s) for large table or computer program				·		
	Certified Copy of Priority Document(s)		Amendment A	After Allowance					
Document(s) Sequence Listing submission Paper Copy/CD Computer Readable Copy Statement verifying identity of above		Request for Certificate of Correction Certificate of Correction (in duplicate)							
CORR	ESPONDENCE ADDRESS			SIGNATURE BLO	OC:				
Direct a	Testa, Hur High Stree 125 High Boston, M Tel. No.: (ibeault, LLP	Date: December 9, 2 Reg. No. 45, 238 Tel. No.: (617) 310- Fax No.: (617) 248-	-817	3 (76 A 00 1	Respectfully submitted, Gerald E. Worth Attorney for Applicant Testa, Hurwitz & Thibeault, LLP High Street Tower 125 High Street Boston, MA 02110		

(

FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.:

NAS-001

APPLICANT(S):

Sanders

SERIAL NO.:

10/664,408

FILING DATE:

September 17, 2003

GROUP NO:

Not yet assigned

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	Al	3,577,324	05/04/71	Patterson	204	20	
	A2	3,632,496	01/04/72	Patterson et al.	204	249	
	A3	3,899,351	08/12/75	Maurer et al.	136	34	
-	A4	4,211,537	07/08/80	Teitel	48	191	
	A5	4,302,217	11/24/81	Teitel	48	180	
	A6	4,336,226	06/22/82	Christensen	422	109	
	A7	4,430,391	02/7/84	Ovshinsky et al.	429	40	
	A8	4,431,561	02/14/84	Ovshinsky et al.	252	184	
	A9	4,487,818	12/11/84	Ovshinsky et al.	429	44	
	A10	4,623,597	11/18/86	Sapru et al.	429	101	
	A11	4,637,990	01/20/87	Torobin	502	10	
	A12	4,793,980	12/27/88	Torobin	423	213.5	
	A13	4,943,355	07/24/90	Patterson	204	20	
	A14	5,036,031	07/30/91	Patterson	502	10	_
	A15	5,096,667	03/17/92	Fetcenko	420	580	
	A16	5,104,617	04/14/92	Fetcenko et al.	420	588	
	A17	5,135,589	08/04/92	Fetcenko et al.	148	442	
	A18	5,277,998	01/11/94	Furukawa et al.	429	59	
	A19	5,292,557	03/08/94	Olson	427	437	
	A20	5,318,675	06/07/94	Patterson	204	86	
	A21	5,348,822	09/20/94	Ovshinsky et al.	429	223	
	A22	5,376,474	12/27/94	Tadokoro et al.	429	59	
	A23	5,384,210	01/24/95	Furukawa	429	59	

FORM PTO - 1	449			ATTORN	EY DOC	KET NO.:	NA	S-001			
INFORMATIO	INFORMATION DISCLOSURE STATEMENT					APPLICANT(S):			Sanders		
	SERIAL NO.:			10/664,408							
DEC 1 1 2003	100	FILING D	DATE:		Sen	tembo	er 17, 2003				
A24	3	GROUP NO:			Not yet assigned						
A24	5,387,478	02/07/95	Muta et al		····	429	59	yet a	ssigned		
A25	5,523,182	06/04/96	Ovshinsky			429	223				
A26	5,576,116	11/19/96	Sanchez e			429	59				
A27	5,585,112	12/17/96	Unger et a			424	450				
A28	5,607,563	03/04/97	Patterson	et al.		204	269				
A29	5,632,871	05/27/97	Patterson			204	275				
A30	5,635,038	06/03/97	Patterson			204	222				
A31	5,814,108	09/29/98	Nanamoto	Nanamoto et al.			623.1				
A32	6,231,642 B1	05/15/01	Shelby et	Shelby et al.			45				
A33	6,315,981 B1	11/13/01	Unger	Unger			9.323				
A34	6,440,607 B1	08/27/02	Harada et	al.		429	223				
A35	6,445,195 B1	09/03/02	Ward	324		324	684				
A36	6,445,196 B1	09/03/02	White			324	726				
A37	6,447,699 B1	09/10/02	Bernard et	Bernard et al.			521.2				
A38	6,447,942 B1	09/10/02	Ovshinsky	et al.		429	27				
A39	6,447,953 B1	09/10/02	Fierro et a	1.		429	223				
A40	6,455,195 B1	09/24/02	Matsuura	et al.		429	218.2		_		
A41	6,455,196 B1	09/24/02	Kato et al.			429	223				
					·						
		FOREI	GN PATE	NT DOCU	MENTS			<u> </u>			
EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CLASS SUB		1	FILING DATE	ABSTRACT		ENGLISH LANG (Y/N)		

FORM PTO – 1449

DEC 1 1 2003

ATTORNEY DOCKET NO.:

NAS-001

INFORMATION DISCLOSURE STATEMENT

APPLICANT(S):

Sanders

SERIAL NO.:

10/664,408

FILING DATE:

September 17, 2003

GROUP NO:

Not yet assigned

OTHER ART, JOURNAL ARTICLES, ETC.								
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)							
	Cl	Battery Technologies, Inc., http://www.bti.ca/ramcon.htm, printed December 8, 2001, 3 pages						
	C2	Colossus, http://colossus.chem.umass.edu/chandler/ch112/cells.htm, printed December 8, 2002, 6 pages.						
	C3	Kopera, John C., "Inside the Nickel Metal Hydride Battery", Texaco Ovonic Battery Systems LLC, 15 pages, July 25, 2002.						
	C4	Huanyubattery, http://hyper.net.cn/know/12.htm, printed November 14, 2002, 3 pages.						
	C5	Moltech, http://www.moltech.com/techdata/appmanuals/NiMH Application Manual.asp, printed November 14, 2002, 22 pages.						
*	C6	Nelson, Robert, "The Basic Chemistry of Gas Recombination in Lead-Acid Batteries", JOM, http://www.tms.org/pubs/journals/JOM/0101/Nelson-0101.html, pp.28-33, printed October 30, 2002.						
	C7	Panasonic, "Nickel Metal Hydride Handbook", 5 pages, February 2002						
	C8	Saft Automotive, http://www.saftbatteries.com/automotive/uk/datasheet/d2_3.htm, printed December 8, 2002, 2 pages						
	C9	Granta Design, http://www.grantadesign.com/solutions/metalfoams.htm, printed November 25, 2002, 3 pages.						
	C10	Munehisa Ikoma, Shinji Hamada, Nobuyasu Mishita, Yasuko Hoshina, Hiromu Matsuda, Kazuhiro Ohta, Tadao Kimura, "Development of a Nickel/Metal Hydride Battery (NI/MH) System for EV Application", The Electrochemical Society Proceedings Volume 94-27, pp 370-380, (September 14, 2002).						
	C11	Lipka, Steven M. and Nechev, Kamen S., "Silver Oxide-Metal Hydride Cell: Preliminary Performance and Analysis", The Electrochemical Society Proceedings Volume 94-27, pp. 381-392, (September 14, 2002).						

VER 9/00 2694625